

4  
CLAIMS

What is claimed is:

1. An enarthrotic prosthesis (10) characterized by:  
a head member (12) comprising an at least partially spherical ball (14) extending from a base member (18), said base member (18) rotatably seated in a stem member (20), wherein said head member (12) is rotatable with respect to said stem member (20) even after installation in a patient.
2. The enarthrotic prosthesis (10) according to claim 1, wherein said head member (12) rotates with respect to said stem member (20) after installation in a patient.
3. The enarthrotic prosthesis (10) according to claim 1, wherein bearing surfaces between said base member (18) and said stem member (20) are finished with a surface finish that promotes rotational freedom therebetween.
4. The enarthrotic prosthesis (10) according to claim 1, further comprising bearing elements (22) placed at an interface between said base member (18) and said stem member (20).
5. The enarthrotic prosthesis (10) according to claim 1, wherein rotation of said head member (12) with respect to said stem member (20) is controlled by a biasing device (26) placed between said base member (18) and said stem member (20).
6. The enarthrotic prosthesis (10) according to claim 1, wherein said stem member (20) comprises an intramedullary shaft adapted to be placed in an intramedullary cavity.
7. The enarthrotic prosthesis (10) according to claim 1, wherein said at least partially spherical ball (14) is mounted on a post (16) extending from said base member (18).
8. The enarthrotic prosthesis (10) according to claim 1, wherein said prosthesis (10) is coated with a material that enhances adhesion with bone.